PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 85ITYOOM23/WO	FOR FURTHER ACTION as we	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB2004/002455	02/08/2004	08/08/2003
Applicant TOYOTA JIDOSHA KABUSHIKI	KAISHA	
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Searching Autransmitted to the International Bureau.	thority and is transmitted to the applicant
·	s of a total of7 sheets. y a copy of each prior art document cited in this	report.
Basis of the report With regard to the language, the language in which it was filed, un	ninternational search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the
this Authority (Hi	ule 23.1(b)).	lation of the international application furnished to In the international application, see Box No. I.
	und unsearchable (See Box II).	in the international application, see Box No. I.
3. X Unity of Invention is lac	cking (see Box III).	
4. With regard to the title,		
	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as follows:	·
	•	
9		
		·
5. With regard to the abstract,	•	
X the text is approved as su	ubmitted by the applicant.	
the text has been establis may, within one month fro	shed, according to Rule 38.2(b), by this Authorit om the date of mailing of this international searc	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be p	published with the abstract is Figure No. 1	
X as suggested by	the applicant.	
	is Authority, because the applicant failed to sug	
	s Authority, because this figure better character	rizes the invention.
b. none of the figures is to be	e published with the abstract.	

INTERNATIONAL SEARCH REPORT

Internation **Application No** PCT/IB2004/002455

a. classification of subject matter IPC 7 B60L11/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} \begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ IPC 7 & B60L \end{tabular}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of t	he relevant passages	Relevant to claim No.	
P,X	WO 2004/030968 A (TOYOTA MOTO MIZUNO MINOBU (JP)) 15 April 2004 (2004-04-15) page 8, line 20 - page 10, li 1 abstract	1-5,7-18		
X Y	US 6 107 691 A (GORE GERALD E 22 August 2000 (2000-08-22) column 3, line 33 - column 8, figures 2,3,7 abstract		1,2,11, 17 7-10	
Y	US 2003/046802 A1 (CHERNOFF A AL) 13 March 2003 (2003-03-13 page 3, paragraph 50-52 page 8, paragraph 88-91; figu abstract)	7-10	
X Furt	L her documents are listed in the continuation of box C.	X Patent family members are listed	l in annex.	
"A" docume consic "E" earlier of filing of "L" docume which citatio "O" docume other: "P" docume	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	"T" later document published after the interest or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the coannot be considered novel or cannot involve an inventive step when the document of particular relevance; the coannot be considered to involve an indocument is combined with one or manner than the combination being obvious the art. "&" document member of the same patent	the application but eory underlying the claimed invention to be considered to becoment is taken alone claimed invention ventive step when the one other such docuus to a person skilled	
Date of the	actual completion of the international search	Date of mailing of the international search report 0 3. 02. 05		
2	0 January 2005	U. 3, UZ	. 03	

Authorized officer

Bronold, H

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Name and mailing address of the ISA

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INTECNATIONAL SEARCH REPORT

Internati(Application No PCT/I B2004/002455

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		94/002455
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	US 2003/034186 A1 (MORITA HIDEKI ET AL) 20 February 2003 (2003-02-20) page 3, paragraph 35 - page 4, paragraph 47; figures 1-3c abstract	1-5, 11-18	
A	US 6 220 380 B1 (TAKEUCHI AKISHIRO ET AL) 24 April 2001 (2001-04-24) column 2, line 43 - column 3, line 7; figures 1-3 abstract		1-5,7-18
A	EP 0 677 417 A (DAIMLER BENZ AG) 18 October 1995 (1995-10-18) column 2, line 11 - column 3, line 50; figures 1a-2b abstract		7-10
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INTERNATIONAL SEARCH REPORT

Intern. _nal application No. PCT/I B2004/002455

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-5, 7-18
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
· r.
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,11-18

A fuel cell equipped vehicle comprising: a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided o the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided. Further details of the first group of inventions are directed to the arrangement of a connector and of a fuel supply source.

2. claim: 6

A fuel cell equipped vehicle comprising: a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided o the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided. Further details of the second invention concern the outer

3. claims: 7-10

A fuel cell equipped vehicle comprising: a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided o the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided.

Further details of the third group of inventions are directed to the frame structure of the vehicle.

shape of a case for the power control unit.

INTERNATIONAL SEARCH REPORT

Into-mation on patent family members

Internatio \pplication No PCT/IB2004/002455

	WO 2004 US 6107 US 2003	591	AA1	15-04-2004 22-08-2000 13-03-2003	JP WO US EP WO DE WO DE WO WO WO	03019328 03018359	A1 A1 A1 T5 A2 T5 T5 T5 T5	22-04-2004 15-04-2004 	
					DE WO DE DE DE WO WO	1040563 9930412 10297137 03018358 10297132 10297133 10297136 03019328 03018359	A1 A1 T5 A2 T5 T5 T5 A2	04-10-2000 17-06-1999 	
	US 2003	946802	A1	13-03-2003	DE WO DE DE DE WO WO	10297137 03018358 10297132 10297133 10297136 03019328 03018359	T5 A2 T5 T5 T5 T5	26-08-2004 06-03-2003 29-07-2004 22-07-2004 29-07-2004 06-03-2003	
					WO DE DE WO WO WO	03018358 10297132 10297133 10297136 03019328 03018359	A2 T5 T5 T5 A2	06-03-2003 29-07-2004 22-07-2004 29-07-2004 06-03-2003	
					DE WO WO WO	10297133 10297136 03019328 03018359	T5 T5 A2	22-07-2004 29-07-2004 06-03-2003	
. •					DE WO WO	10297136 03019328 03018359	T5 A2	29-07-2004 06-03-2003	
					MO MO MO	03019328 03018359	A2	06-03-2003	
					WO WO	03018359			
. •						0001000	· \-	06-03-2003	
. •					WN		A2	06-03-2003	
. •							A2	06-03-2003	
, ·					WO WO	03019309 03018345	A1 A2	06-03-2003 06-03-2003	
. ·					US	2003040827	A1	27-02-2003	
				•	US	2003040977		27-02-2003	
					US US	2003094318 2003047362		22-05-2003	
			•		US	2003047362		13-03-2003 27-02-2003	
		•			US	2003094319		22-05-2003	
				•	US	2003037427		27-02-2003	
					US .	2003037967		27-02-2003	٠
					US US	2003040828 2003094320		27-02-2003 22-05-2003	
					US	2003037968		27-02-2003	
					US	2003038467	A1	27-02-2003	
					US		A1	27-02-2003	
			•		US US	2003037987 2003037975		27-02-2003 27-02-2003	
			•		US	2003037973		27-02-2003	
					ÜS	2003037969	A1	27-02-2003	
•					US	2003037970		27-02-2003	
					US US	2003038468 2003038442		27-02-2003 27-02-2003	
					US	2003089536		15-05-2003	
					ÜŠ	2003116374	A1	26-06-2003	
				•	US	2003038470	A1 .	27-02-2003	
				•	US US	2003038469 2003037971	Al	27-02-2003	
					US US	2003037971		27-02-2003 27-02-2003	
					ÜS	2003038509		27-02-2003	
					US	2003037973	A1	27-02-2003	
					US	2003040979		27-02-2003	
					US De	2004189054 10297135		30-09-2004 29-07-2004	
				<i>:</i>	EP	1446645		18-08-2004	
					ΕP	1448969	A1	25-08-2004	
					WO	03018373		06-03-2003	
					WO WO	03049964 03050498		19-06-2003	
					WO	03054500		19-06-2003 03-07-2003	
		•			US	2003127272		10-07-2003	
	US 2003	 934186	A1	20-02-2003	.јр	2003102111	^	04-04-2003	

INTEPNATIONAL SEARCH REPORT

Inhonation on patent family members

Internatic Application No
PCT/IB2004/002455

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6220380	B1	24-04-2001	JP	11180163 A	06-07-1999
EP 0677417	Α	18-10-1995	DE EP	4412453 A1 0677417 A1	26-10-1995 18-10-1995